

Curriculum Vitae, **VINCENT G. GUIDA**

Research Fisheries Biologist, U.S. DOC, NOAA, NMFS, Northeast Fisheries Science Center (NEFSC), J.J. Howard Laboratory, 74 Magruder Rd., Highlands, NJ 07732
Phone: (732) 872-3020 E-mail: vincent.guida@noaa.gov

Education:

B.S., Rensselaer Polytechnic Institute, 1970. Biology.

Ph.D., North Carolina State University, 1977: Marine Science/Zoology

Experience:

Acting Branch Chief, NEFSC Coastal Ecology: 2014-present.

Leader, Bureau of Ocean Energy Management (BOEM) Benthic Habitat Assessment Project, 2014-present.

Leader, Habitat Characterization Team: J.J. Howard Laboratory: planning and conducting benthic habitat fisheries research and developing new approaches: 2007- present.

Chief Scientist for NEFSC habitat cruise to Maryland offshore reefs, performing biological sampling, and multibeam acoustic mapping: June 2008.

Chief Scientist for NEFSC habitat and training cruises (10) to develop minority student interest and promote academic research in support of fisheries.

Chief Scientist for a series of annual cruises to Hudson Canyon, performing biological and hydrological sampling and sonar mapping: 2001-2012.

Marine Chemistry Research at J.J. Howard Laboratory, developing field sampling and laboratory methods for biochemical analysis of biota, participation in NEFSC Energy Modeling and Analysis eXercise (EMAX) to develop marine system trophic models..

Cruise participation: NURP (1) to determine the utility of multibeam mapping using an AUV: 2007, participation in NEFSC Fisheries Survey (3), and J.J. Howard Linkages Program (45), performing biological sampling: 1997-2002, Gulf of Mexico Deepwater Horizon Response (2): 2010, NEFSC-SEFSC multibeam sonar workshop cruise: 2011.

Wildlife Biologist, US Army Corps of Engineers, NY District, overseeing development of hydrological/water quality modeling program for NY Harbor: 1998-99.

Research Scientist, Center for Marine & Environmental Studies and Energy Research Centers, and Director, Wetlands Institute, Lehigh University: 1979-1996.

Postdoctoral Fellow, Institute for Pathobiology, Lehigh University: 1978-1979.

Research Interests:

Characterization (including hydrology and hydroclimate, topography, surficial geology, and ecological setting) and acoustic bottom mapping. Utilization of marine and estuarine habitats by fisheries species, trophic ecology and chemistry of marine organisms and trophic modeling of marine systems.

Educational Interests:

Providing undergraduate and graduate students with hands-on research experience to ignite their passion for marine sciences, particularly fisheries ecology, and an appreciation for interdisciplinary team approaches for addressing complex problems.

Some Recent Press Releases:

<http://news.rutgers.edu/medrel/news-releases/2009/12/a-closer-look-at-the-20091201>

<http://www.umes.edu/LMRCSC/Default.aspx?id=39478>

http://www.nytimes.com/2010/07/13/science/13canyon.html?_r=1

http://sh.nefsc.noaa.gov/ceb/hudsonvince_ss1003.html

<http://www.nefsc.noaa.gov/albatross4/pdfs/umesStudent.pdf>

Recent Publications and Presentations:

Journal Articles:

Pierdomenico, M., **Guida, V.**, Rona, P., Macelloni, L., Scranton, M., Asper, V., Diercks, A. *in press*. Benthic Habitat Mapping at the Hudson Canyon head based on the integrated analysis of geophysical and groundtruth data. *Deep Sea Research II tbd*

Rona, P., **Guida, V.**, Scranton, M., Gong, D., Macelloni, L., Pierdomenico, M., Diercks, A., Asper, V. and Haag, S. *in review*. Hudson Submarine Canyon head offshore New York and New Jersey: A physical and geochemical investigation of a fertile habitat. *Deep Sea Research II tbd*.

Litvin, S.Y., Weinstein, M.P., and **Guida, V.G.** 2014. Habitat utilization patterns determine the physiological condition of *Cynoscion regalis* during estuarine residency. *Mar. Ecol. Prog. Ser.* 510: 87-99.

Guida, V.G., Valentine, P.C., and Gallea, L. 2013. Semidiurnal Temperature Changes Caused by Tidal Front Movements in the Warm Season in Seabed Habitats on the Georges Bank Northern Margin and Their Ecological Implications. *PlosONE* 8(2): e55273.

Vitaliano, J., D. Packer, R. Reid and **V. Guida**. 2013. Broad-scale, dense amphipod tube aggregations on the seabed: implications for resource species that utilize benthic habitats. *Fish. Oceanogr.* 22(1):61-67.

Litvin, S. Y., **Guida, V.G.** and Weinstein, M.P. 2011. Lipid class dynamics and storage depots in Juvenile Weakfish (*Cynoscion regalis*) and their application to condition assessment. *J. Fish Biol.* 78: 1294-1310.

Weinstein, M.P., Litvin, S.Y., **Guida, V.G.** 2010. Stable isotope and biochemical composition of white perch in a *Phragmites* dominated salt marsh and adjacent waters. *Wetlands* 30: 1181-1191.

Weinstein, M.P., Litvin, S.Y., **Guida, V.G.** 2009. Essential fish habitat and wetland restoration success: A Tier III approach to the biochemical condition of common mummichog *Fundulus heteroclitus* in common reed *Phragmites australis*- and smooth cordgrass *Spartina alterniflora*-dominated salt marshes. *Estuaries and Coasts* DOI 10.1007/s12237-009-9185-5.

Weinstein, M.P., Litvin, S.Y., **Guida, V.G.** and Chambers, R.C. 2009. Is global climate change influencing the distribution of weakfish *Cynoscion regalis*? J. Fish. Biol. 75: 693-698.

Link, J., L. Col, **V. Guida**, D. Dow, J.O'Reilly, J. Green, W. Overholtz, D. Palka, C. Legault, J. Vitaliano, C. Griswold, M. Fogarty and K. Friedland. 2009. Response of balanced network models to large-scale perturbation: Implications for evaluating the role of small pelagics in the Gulf of Maine. Ecol. Model. 220 (3):351-369.

Link, J., Overholtz, W., O'Reilly, J., Green, J., Dow, D., Palka, D., Legault, C., Vitaliano, J., **Guida, V.**, Fogarty, M., Brodziak, J., Methratta, L., Stockhausen, W., Col, L., Griswold, C. 2008. The Northeast U.S. continental shelf Energy Modeling and Analysis exercise (EMAX): Ecological network model development and basic ecosystem metrics. J. Mar. Syst. 74 (1-2):453-474.

Link, J., O'Reilly, J., Fogarty, M., Dow, D., Vitaliano, J., Legault, C., Overholtz, W., Green, J., Palka, D., **Guida, V.**, Brodziak, J., Methratta, E., Stockhausen, W.T. 2008. Environmental and Ecosystem Histories in the Northwest Atlantic - What Influences Marine Living Resources? J. Northwest Atl. Fish. Sci. 39:83-101.

Link, J.S., Col, L., Overholtz, W., O'Reilly, J., **Guida, V.**, Green, J., Dow, D., Palka, D., Legault, C., Vitaliano, J., Griswold, C., Fogarty, M., Friedland, K. 2007. Evaluating the role of small pelagics in the Gulf of Maine: EMAX scenarios of energy flow. The Changing North Pacific: Previous Patterns, Future Projections and Ecosystem Impacts. p. 37.

Valentine, P.C., Collie, J.S., Reid, R.N., Asch, R., **Guida, V.G.**, and Blackwood, D., 2007. The occurrence of the colonial ascidian *Didemnum* sp. on Georges Bank gravel habitat – ecological observations and potential effects on groundfish and scallop fisheries: J. Exp. Mar. Biol. Ecol. 342: 179-181.

Weinstein, M. P., Litvin, S.Y. & **Guida, V.G.** 2005. Consideration of habitat linkages, estuarine landscapes, and the trophic spectrum in wetland restoration design. J. Coastal Res. 40: 51-63.

Reports

Guida, V.G. 2009. Evaluation of the Kongsberg ME70 Multibeam Sonar aboard *F/V Henry B. Bigelow* used during Bathymetric Mapping of Benthic Habitats in Summer 2008. White Paper Report, Northeast Fisheries Science Center, J.J. Howard Laboratory, Highlands, NJ. 21 pp.

Guida, V.G. 2008. Report on the NOAA invasive colonial tunicate research and management planning workshop, Providence, RI Sept. 10-11, 2008. 17 pp.

Packer, D.B., Boelke, D., **Guida, V.**, and McGee, L.-A. 2007. State of Deep Coral Ecosystems in the Northeast Region. pp. 195-232. In: SE Lumsden, Hourigan T.F., Bruckner A.W. and Dorr G. (eds.) The State of Deep Coral Ecosystems of the United States. NOAA Technical Memorandum CRCP-3. Silver Spring MD 365 pp.

Guida, V.G., D. Wieczorek, T. Cleary, S. Williams, and E. Leimberg. 2007. Determination of the nutritional value of *Didemnum* sp. Report to Invasive Species Group, NOAA Office of Habitat Restoration, Silver Springs, MD. 8 pp.

Candelmo, A., **V.G. Guida**, S. Williams and D. Wieczorek. 2007. Palatability to the Fisheries Ecosystem of the Invasive Tunicate *Didemnum* sp. Report to Invasive Species Group, NOAA Office of Habitat Restoration, Silver Springs, MD. 12 pp.

Brodziak, J.K.T, Col, L.A., Dow, D.D., Edwards, S.F., Fogarty, M.J., Fromm, S.A., Green, J.R., Griswold, C.A., **Guida, V.G.**, Johnson, D.L., Kane, J.M., Legault, C.M., Link, J.S., O'Reilly, J.E., Overholtz, W.J., Palka, D.L., Stockhausen, W.T., Vitaliano, J.J., & Waring, G.T. 2006. Documentation for the Energy Modeling and Analysis eXercise (EMAX). Northeast Fisheries Science Center Reference Document 06-15. Woods Hole, MA 176 pp.

<http://www.nefsc.noaa.gov/publications/crd/crd0615/pdfs/9.pdf>

<http://nefsc.noaa.gov/publications/crd/crd0615/pdfs/10.pdf>

Link, J.S., Overholtz, W.J., O'Reilly, J.E., Green, J.R., Metthrata, E., Dow, D.D., Palka, D.L., Legault, C.M., Edwards, S.F., Waring, G.T., Stockhausen, W.T., Moutain, D., Vitaliano, J.J., **Guida, V.G.**, Jossi, J., Kane, J.M., Fogarty, M.J., Brodziak, J.K.T, Griswold, C.A., McCandless, C., Kohler, N., Fromm, S.A., Col, L.A., Smith, T., MacKenzie, C., & Goldberg, R. 2005. An overview of EMAX: The northeast U.S. continental shelf ecological network. ICES Council Meeting Documents. Copenhagen. no. 2005.

Guida, V. G. 2005. Tilefish, *Lopholatilus chamaeleonticeps*, Life History and Habitat Characteristics. Revision of 1999 NOAA Technical Memorandum NMFS-NE-152. 21 pp.

Guida, V. G. & Draxler, A. F. J.. 2001. Sediment Biogeochemistry. Ch. IV, pp. 65-88 in D. Packer, ed. Assessment and characterization of salt marshes in the Arthur Kill (New York and New Jersey) replanted after a severe oil spill. NOAA Technical Memorandum NMFS-NE-167. <http://www.nefsc.noaa.gov/publications/tm/tm167/chapters/tm167p4.htm>

NEFSC Cruise Reports authored:

2001. DE01-11 Benthic Habitat Study (Hudson Canyon & Georges Bank), 7 pp.

2002. OC02-12 Benthic Habitat Study (Hudson Canyon), 13 pp.

2004. DE04-12 Benthic Habitat Study (Hudson Canyon), 15 pp.

2005. AL05-01 LMRCSC Cruise (mid-Atlantic), 22 pp.

2005. DE05-14 Benthic Habitat Study (Hudson Canyon), 13 pp.

2006. DE06-01 LMRCSC Cruise (mid-Atlantic), 13 pp.

2007. AL07-01 LMRCSC Cruise (mid-Atlantic), 19 pp.

2007. DE07-02 Benthic Habitat Study (Hudson Canyon), 17 pp.

2008. DE08-01 LMRCSC Cruise (mid-Atlantic), 35 pp.

2008. HB08-05 Leg 1 Habitat Mapping Cruise (mid-Atlantic Leg), 18 pp.

2008. HB08-05 Leg 2 Habitat Mapping Cruise (Georges Bank Leg), 14 pp.

2008. HB08-05 Leg 3 Habitat Mapping Cruise (Hudson Canyon Leg), 21 pp.

2008. HB08-06 Benthic Habitat Study (Georges Bank), 15 pp.
 2009. DE09-01 LMRCSC Cruise (mid-Atlantic), 22 pp.
 2009. DE09-08 Benthic Habitat Study (Georges Bank), 12 pp.
 2009. HB09-04 Habitat Mapping Cruise (Hudson Canyon), 19 pp.
 2010. DE10-02 LMRCSC Cruise (mid-Atlantic), 17 pp.
 2010. DE10-11 Benthic Habitat Study (Georges Bank), 12 pp.
 2010. HB10-06 Deepwater Horizon (Gulf of Mexico), 26 pp.
 2011. DE11-01 LMRCSC Cruise (mid-Atlantic), 23 pp.
 2011. HB11-04 Habitat Mapping Cruise (Hudson Canyon), 22 pp.
 2012. DE12-01 LMRCSC Cruise (mid-Atlantic), 23 pp.

Presentations

Stevenson, D., R. Langton, L. Chiarella, **V.G. Guida**, A. Drohan, B. Kinlan, and M. Bachman. 2012. A partnership to develop and implement a strategy for deep-sea coral conservation in the Northwest Atlantic. Am. Fish. Soc. 142nd Annual Mtg., St. Paul, MN, 19-23 Aug. 2012.

Guida, V.G., P.A. Rona, P. Asper, A. Diercks, L. Macelloni, M. Pierdomenico, and M. I. Scranton. 2011. Hudson Canyon: multispecies habitat complexes as a geographic priority. Am. Fish. Soc. 141st Annual Mtg., Seattle, WA. 4-9 Sept., 2011.
<https://afs.confex.com/afs/2011/webprogram/Paper7151.html>

Candelmo, A. and **V.G. Guida**. 2009. Nutritional value of invasive tunicates, *Botrylloides violaceus* and *Didemnum vexillum* to potential consumers in the Mid-Atlantic nearshore ecosystem. Coastal and Estuarine Research Foundation (CERF) 20th Biennial Meeting, Portland, OR, 1-5 Nov. 2009.

Wieczorek, D., **V.G. Guida**, A.F.J. Draxler and T.H. Cleary. 2008. Inshore Dynamics of Invasive Tunicates in the Middle Atlantic Bight. Atlantic Estuarine Research Society (AERS) Annual Meeting, 2008.

Guida, V.G., J. Link, J. O'Reilly, D. Dow, M. Fogarty, J. Vitaliano, C. Legault, W. Overholtz, J. Green, D. Palka, and J. Brodziak. 2007. Trophic network modeling of the marine ecosystem in the northeastern US: how blind men "see" an elephant. 2007. Am. Fish. Soc. Symp. 43.

Litvin, S. Y.; Weinstein, M. P.; **Guida, V. G.**; Grottole, A. G. 2005. Considering the Production of Fish on the Scale of the Estuary: Insights from Multidisciplinary Approach. 2005 Conference of the Estuarine Research Federation (ERF 2005), Norfolk, Virginia (USA), 16-20 Oct 2005

Almeida, F., Valentine, P., Reid, R., Arlen, L., Auster, P., Cross, J., **Guida, V.**, Lindholm, J., Packer, D., Vitaliano, J., & Paulson, A. 2005. The effectiveness of marine protected areas on fish and benthic fauna: The Georges Bank Closed Area II example. Am. Fish. Soc. Symp. 41: 589-590.

Litvin, S. Y, **V. G. Guida** and M. P. Weinstein. 2002. The use of thin layer chromatography in conjunction with flame ionization detection to analyze the biochemical condition of juvenile

weakfish exhibiting differential habitat utilization patterns in Delaware Bay. ASLO annual meeting, Vancouver, BC, 6/10-6/14/2002.

Litvin, S. Y, **V. G. Guida** and M. P. Weinstein. 2002. Exploring the effects of estuarine habitat utilization on the biochemical condition of juvenile marine transients. AFS annual meeting, Baltimore MD, 2002.

Litvin, S. Y, **V. G. Guida** and M. P. Weinstein.. 2001. Trophic linkages and relative importance of salt marsh habitats to resident and marine transient finfish in Delaware Bay: A stable isotope and “biochemical condition” approach. ERF annual meeting, St. Petersburg FL, 11/4-11/8/2001.

Guida, V. G. 2001. Patterns in biochemical condition of some young-of-the-year demersal fishes: the price of seasonal migration. 7th Annual NEFSC Science Symposium, 12/8-12/13/2001.

Guida, V. G. 2000. Spatio-temporal patterns in biochemical condition of some YOY demersal fishes: the price of seasonal migration. AFS Larval Fish Conference, Sandy Hook NJ, 2000.

Guida, V. G. Interaction of influences of hydrology, interstitial water chemistry and inter-annual climatic variations upon growth form in *Spartina alterniflora* in a New Jersey salt marsh. Society of Wetland Scientists 20th Annual Meeting, Norfolk, VA, 6/6-6/12/1999.

Guida, V. G., A. F. J. Draxler & D. Packer. 1998. Biogeochemistry of urban salt marsh habitat restored following oil spill damage. Concepts and Controversies in Tidal Marsh Ecology Conference, Vineland NJ

Draxler, A. F. J., L. Arlen, **V. Guida** & B. A. Phelan 1997. Association of Winter Flounder Growth Rates with Habitat Biogeochemistry. ICES annual meeting..

Guida, V. G., A. D. J. Draxler and L. Arlen. Biogeochemistry of Arthur Kill Salt Marshes: Functional aspects of Restored Marshes. New Jersey Academy of Sciences 42nd Annual Meeting, Monmouth University, Middletown, NJ, 1997.

Posters

Guida, V.G., P.A. Rona, P. Asper, A. Diercks, L. Macelloni, M. Pierdomenico, and M. I. Scranton. 2011. Hudson Canyon: multispecies habitat complexes as a geographic priority. Am. Fish. Soc. 141st Annual Mtg., Seattle, WA. 4-9 Sept., 2011.
http://niust.org/media/publications/AFS_poster_2011.pdf

Rona, P. **Guida, V.** Scranton, M; Gong, D; Haag, S; Macelloni, L., Simonetti, A. Diercks, A; Asper, V. 2009. Hudson Submarine Canyon Head Offshore New York and New Jersey: Active circular depressions, fans, ravines, methane discharge and water masses. Fall Meeting of the American Geophysical Union (AGU 2009), San Francisco, California (USA), 14-18 Dec 2009.
<http://adsabs.harvard.edu/abs/2009AGUFMEP43A0636R>

Guida, V.G., P. Rona, V. Asper, P.C. Valentine, J. Collie, B. Smith, E. Broughton, J. Pederson, and J. Morash. 2009. Fisheries habitat technology and research aboard *Henry B. Bigelow*, Summer 2008. NEFSC Science Symposium, Newport, RI, Jan. 21-23, 2009.

Rona, P; **Guida, V.**; Scranton, M; Gong, D; Sullivan, M; Haag, S; Diercks, A; Asper, V. 2008. Hudson Submarine Canyon Head Offshore New York and New Jersey: a Dynamic Interface II. 2008 Fall Meeting of the American Geophysical Union (AGU 2008), San Francisco, California (USA), 15-19 Dec 2008. <http://adsabs.harvard.edu/abs/2008AGUFMOS51A1238R>

Rona, P., **Guida, V.G.**, Sullivan, M., Haag, S., Macelloni, L., Sweeney E., Scranton, M., Hobbs, J., and Asper, V. 2007. Hudson Submarine Canyon head offshore New York and New Jersey: A dynamic interface. Poster presented at 2007 Fall Meeting of American Geophysical Union (AGU 2007), San Francisco, California (USA), 10-14 Dec 2007.

Guida, V.G., Candelmo, A., Wieczorek, D., Cleary, T.H., Williams, S., and Leimburg, E. 2007. *Didemnum* sp. in North America: Can anything eat it? Will it do them any good? 2007. Proc. 2nd International Invasive Sea Squirt Conference, Prince Edward Island, Oct. 2-4, 2007. http://woodshole.er.usgs.gov/project-pages/stellwagen/didemnum/images/pdf/news/PEI_prog_abs.pdf

Guida, V.G. 2006. Single beam sonar mapping of deepwater habitats in Hudson Canyon. Geographic Information Systems and Ocean Mapping in Support of Fisheries Research and Management Workshop. MIT Sea Grant, Massachusetts Institute of Technology. Cambridge, MA, April 11, 2006.

Guida, V.G., Paulson, A., Valentine, P.C. & Arlen, L. 2005. Effects of fishing on organic carbon content of sand habitats on Georges Bank. Am. Fish. Soc. Symp. 41:596-597.

Guida, V.G., Valentine, P.C. & Almeida, F. 2005. Effects of Fishing on the Mid-Atlantic tilefish habitat: Restructuring a structured habitat. Am. Fish. Soc. Symp. 41:319.

Reid, R., Almeida, F., Valentine, P., Arlen, L., Cross, J., **Guida, V.**, Link, J., McMillan, D., Murawski, S., Packer, D., Vitaliano, J., & Paulson, A. 2005. The effectiveness of marine protected areas on fish and benthic fauna: The Georges Bank Closed Area I example. Am. Fish. Soc. Symp. 41: 601-602.

Guida, V.G. and P.C. Valentine. 2004. Long-term changes in canyon rim fisheries habitats: deep sea corals that survive trawling. Fisheries, Oceanography and Society Symposium Series: Deep-sea Fisheries: Ecology, Economics and Conservation. Woods Hole Oceanographic Institution and New England Aquarium; September 12-14, 2004.

Guida, V.G., P. C. Valentine, F. Almeida, L. Pandolfo & B. Shafer. 2002. Effects of fishing on the mid-Atlantic tilefish habitat: restructuring a structured habitat. Symposium on Effects of Fishing Activities on Benthic Habitats, Tampa FL, 11/12-14/2002.

Reid, R., F. Almeida, P. Valentine, L. Arlen, J. Cross, **V. Guida**, J. Link, D. McMillan, S. Murawski, D. Packer, J. Vitaliano & A. Paulson. 2002. The effectiveness of marine protected

areas on fish and benthic fauna: the Georges Bank closed area I example. Symposium on Effects of Fishing Activities on Benthic Habitats, Tampa FL, 11/12-14/2002.

Almeida, F., P. Valentine, R. Reid, L. Arlen, P. Auster, J. Cross, **V. Guida**, J. Lindholm, J. Link, D. Packer, J. Vitaliano & A. Paulson. 2002. The effectiveness of marine protected areas on fish and benthic fauna: the Georges Bank closed area II examples. Symposium on Effects of Fishing Activities on Benthic Habitats, Tampa FL, 11/12-14/2002.

Link, J., F. Almeida, R. Reid, P. Valentine, L. Arlen, **V. Guida**, D. Packer, T. Noji & J. Vitaliano. The effectiveness of marine protected areas on fish and benthic fauna: how long does it take for benthic habitat to recover from fishing disturbance? Symposium on Effects of Fishing Activities on Benthic Habitats, Tampa FL, 11/12-14/2002.

Reports and Publications prior to 1997

Guida, V. G. 1996. Pictorial catalogue of insects and arachnids from southern New Jersey beaches. Wetlands Institute Special Publication. Stone Harbor, NJ. 20 pp.

Guida, V. G. & N. Sarunac. 1996. Chlorine minimization and boundary layer injection for control of zebra mussel fouling in Hudson River water intakes. Final Report Sea Grant Project R/E-44ZM. Energy Research Center, Lehigh University, Bethlehem PA. 53 pp.

Guida, V. G., J. Chylack, K. Crawley, S. Gander and P. L. Hughes. 1995. The influence of groundwater hydrology and chemistry on the growth form of smooth cordgrass in a salt marsh. Report to Wetlands Institute Research Committee, 50pp.

Guida, V. G. 1995. On the environmental status, potential hazards and remedial actions regarding a heavy metal-contaminated wetland adjoining the property of Pioneer Metal Finishing Inc. Report to Pioneer Metal Finishing. Environmental Studies Center, Lehigh University, Bethlehem, PA. 25 pp.

Guida, V. G., D. Zeroka and A. Choudhury. 1995. Biological baseline study of Long Slip Canal. Final Report to Frederic R. Harris, Inc. Environmental Studies Center, Lehigh University, Bethlehem, PA. 55 pp.

Guida, V. G., L. Hood, M. Mol and M. Sweeney. 1994. The influence of groundwater hydrology and chemistry of the growth form of smooth cordgrass in a Salt Marsh. Report to Wetlands Institute Research Committee. 43 pp.

Guida, V. G., N. Sarunac, Z. Zhang, J. Remenar and D. Zeroka. 1994. Side-stream test facility operation and results: 1992 and 1993, and general conclusions. Report to Consolidated Edison Company of New York. Energy Research Center, Lehigh University, Bethlehem, PA. 52 pp.

Guida, V. G., R. Husted, S. Miller and B. Stuebner. 1993. The influence of groundwater hydrology and chemistry of the growth form of smooth cordgrass in a Salt Marsh. Report to Wetlands Institute Research Committee. 37 pp.

Kugelman, I. J. and **V. G. Guida**. 1993. Waste treatment and energy recovery in closed-cycle aquaculture systems. Final Report to the National Marine Fisheries Services, NOAA, US Department of Commerce. Environmental Studies Center, Lehigh University, Bethlehem, PA. 31 pp.

Guida, V. G. and D. Zeroka. 1993. Chemical/biological conditions of drainage from outfalls and adjacent wetlands at Kearny Rail Facility. Final Report to New Jersey Transit Corporation. Environmental Studies Center, Lehigh University, Bethlehem, PA. 20 pp.

Sarunac, N., **V.G. Guida** and R. Weisman. 1992. Advanced macrofouling control methods and their potential for improving cooling system performance. Proc. EPRI Heat Rate Improvement Conf., Birmingham, AL

Guida, V. G. 1992. Control of mussel fouling at the Astoria power plant. Phase 2. Final Report to Consolidated Edison Company of New York, Energy Research Center, Lehigh University, Bethlehem, PA. 48 pp.

Guida, V. G. 1992. Moisture measurement in coal. Final report to New York State Electric and Gas Company, Energy Research Center, Lehigh University, Bethlehem, PA. 28 pp.

Guida, V. G., K. Albright, G. Poulopolous and K. Ziobro. 1991. The influence of groundwater hydrology and chemistry of the growth form of smooth cordgrass in a Salt Marsh. Report to Wetlands Institute Research Committee. 33 pp.

Guida, V. G. 1991. Water quality and ecological impacts of secondary effluent wastewater from seafood processing on a Cape May salt marsh. Final Report to the Noone Fellowship Committee, Wetlands Institute. 25 pp.

Kugelman, I. J. and **V. G. Guida**. 1991. Feasibility and modeling of the use of New Jersey salt marshes to treat clam processing wastewaters. Final report (3rd year) to US Department of Commerce, NOAA, National Marine Fisheries Services. Environmental Studies Center, Lehigh University, Bethlehem, PA. 57pp.

Guida, V. G., P. T. Bradt and J. Remenar. 1990. Biological stream assessment, Crosswicks Creek and unnamed receiving tributary. Subcontract report for NJPDEP application NJ0026711 for Albert C. Wagner Correctional Facility. Project Officer, Kupper Associates. Environmental Studies Center, Lehigh University, Bethlehem, PA. 52 pp.

Guida, V. G. 1989. Union Lake eutrophication study: Seasonal water quality modeling on effects of winter loading on Spring algal blooms and Lake water quality. Report to Landis Sewerage Authority, NJDEP and USEPA. Environmental Studies Center, Lehigh University, Bethlehem, PA. 11 pp.

Guida, V. G. and I. J. Kugelman. 1989. Treatment of clam processing wastewater by activated sludge and salt marsh polishing: Results of microcosm scale experiments. Proceedings 1989 Food Processing Waste Conference, Atlanta, GA.

Guida, V. G. 1989. Water quality and ecological impacts of secondary effluent wastewater from seafood processing on a Cape May salt marsh. Report to the Noone Fellowship Committee, Wetlands Institute. 23 pp.

Guida, V.G. and I.J. Kugelman. 1989. Experiments in wastewater polishing in constructed tidal marshes: does it work? Are the results predictable? Ch. 41b, pp. 727-734 in: D.A. Hammer, ed. Constructed Wetlands for Wastewater Treatment. Lewis Publishers, Chelsea, MI. Kugelman, I.J. and **V.G. Guida**. 1989. Comparative evaluation of mesophilic and thermophilic anaerobic digestion. EPA/600/S2-89/001

Sarunac, N. and **V. G. Guida**. 1988. Review of macrofouling control technologies. Section 3 in N. Sarunac, A. S. Warnock, J. A. Owczarec and V. G. Guida. Control of mussel fouling at the Astoria Power Plant. Phase 1 Report to Consolidated Edison Company of New York. Energy Research Center, Lehigh University, Bethlehem, PA.

Guida, V. G. 1988. Union Lake eutrophication study: Computer modeling study of water quality. Report to USEPA, NJDEP and the Landis Sewerage Authority. Environmental Studies Center, Lehigh University, Bethlehem, PA. 56 pp.

Kugelman, I. J., **V. G. Guida**, G. Cushing and L. Spellman. 1988. Effect of temperature transitions on anaerobic digestion. Proceedings 20th Mid-Atlantic Industrial Waste Conference, Washington DC, pp. 60-84.

Kugelman, I. J. and **V. G. Guida**. 1988. Feasibility and modeling of the use of New Jersey salt marshes to treat clam processing wastewaters. Final report (2nd year) to US Department of Commerce, NOAA, National Marine Fisheries Services. Environmental Studies Center, Lehigh University, Bethlehem, PA. 57pp.

Guida, V. G. 1987. Union Lake eutrophication study: Results of laboratory flask experiments and field studies. Report to USEPA, NJDEP and the Landis Sewerage Authority. Environmental Studies Center, Lehigh University, Bethlehem, PA. 22 pp.

Guida, V. G. and I. J. Kugelman. 1987. Study of the use of coastal salt marshes for wastewater treatment. 60th Annual Conference of the Water Pollution Control Federation, Philadelphia PA.

Guida, V. G. 1987. Report on benthic macrofauna of Riggins Ditch, near Leesburg, NJ. Appendix A in Kupper Associates. 1987. Leesburg State Prison proposed wastewater treatment plant. Environmental assessment for NJPDEP Discharge Allocation Certificate. Environmental Studies Center, Lehigh University, Bethlehem, PA.

Pirnik, M. P., **V. G. Guida**, R. R. McMullen, and I. J. Kugelman. 1987. Performance of standardized inocula for industrial BOD determination. in Proceedings of the 19th Mid-Atlantic Industrial Waste Conference. Tokyo, Japan.

Guida, V. G. and I. J. Kugelman. 1986. Activated sludge treatment and salt marsh polishing for seafood processing wastewater: An experimental investigation. pp. 372-390 in G. D. Boardman, ed. Toxic and Hazardous Waste: Proceedings of the 18th Mid-Atlantic Industrial Waste Conference, 6/29-7/1/1986, Blacksburg, VA.

Kugelman, I. J. and **V. G. Guida**. 1986. Feasibility and modeling of the use of New Jersey salt marshes to treat clam processing wastewaters. Final Report (1st year) to US Department of Commerce, NOAA, National Marine Fisheries Service. 20 pp.

Guida, V.G. and T.C. Cheng. 1980. Lead hematoxylin-basic fucsin: new stain for molluscan hemocytes. Trans. Am. Microsc. Soc. 99(1): 135-140.

Cheng, T.C. and **V.G. Guida**. 1980. Hemocytes of *Bulinus truncatus rohlfsi* (Mollusca: Gastropoda). J. Invertebr. Pathol. 35(2): 158-167.

Cheng, T.C., M.S. Butler, **V.G. Guida** and P.L. Gerhart. 1979. A scanning electron microscope study of the pseudopodia of *Biomphalaria glabrata* hemocytes. J. Invert. Pathobiol. 33:118-120.

Guida, V. G. 1976. Sponge predation in the oyster reef community as demonstrated with *Cliona celata* Grant. J. Exp. Mar. Biol. Ecol. 25:109-122.